2013 ASEE Annual Conference Call for Papers

The MULTIDISCIPLINARY ENGINEERING DIVISION invites abstracts on subjects of particular interest to those involved with multidisciplinary engineering programs including general engineering and other engineering programs not currently covered by specific ABET program criteria. The division accepts abstracts from a wide and varied group of researchers, educators and practitioners. Where noted below, we expect to devote special sessions for some of the subject areas. Subjects of particular interest are:

- A special session will be devoted to the integration of art and engineering. The division invites papers that:
  1. Share best practices in fusing art and engineering in the engineering curricular and co-curricular activities.
  2. Report assessment results of current art-engineering curricular and co-curricular activities with emphasis on retention of students in engineering and ABET outcomes.
  3. Showcase research in how inclusion of art enriches the engineering discipline.
- A special session will be devoted to the micro-technology and nano-technology. We are particularly interested in the multidisciplinary aspects of programs, projects, research, and student learning.
- A special session may be devoted to multidisciplinary aspects of vehicle engineering.
- Mechatronics education, projects, and outcome assessment.
- The impact of multidisciplinary designs, approaches, and experiences. We are interested in the impact on learning, self-efficacy, diversity, teaming, and the ability to innovate.
- Multidisciplinary engineering course design and implementation such as multidisciplinary capstone implementations, service-learning courses, experiential learning, sustainability, robotics, and hybrid courses that integrate disciplinary knowledge and skill.
- Curricular structures and designs that incorporate multidisciplinary aspects. We are particularly interested in new program design and the assessment and evaluation of recent innovations that address the Engineer of 2020 aspirations.
- Accreditation and assessment of multidisciplinary engineering programs and assessment addressing ABET criteria 3d.
- Perspectives of multidisciplinary engineering constituents (students, faculty, administration, placement, employers, alumni, etc).
- Innovative uses of current and emerging technologies in teaching multidisciplinary engineering.
- Extracurricular student projects/contests in multidisciplinary engineering.

Questions regarding abstract and paper submission may be directed to the Multidisciplinary Engineering Division Program Chair:

Steven G. Northrup, Ph.D. (Steve)
Department of Electrical and Computer Engineering
Western New England University
1215 Wilbraham Rd.
Springfield, MA 01119

steven.northrup@wne.edu